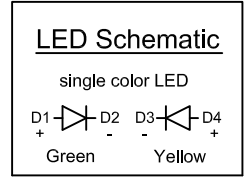
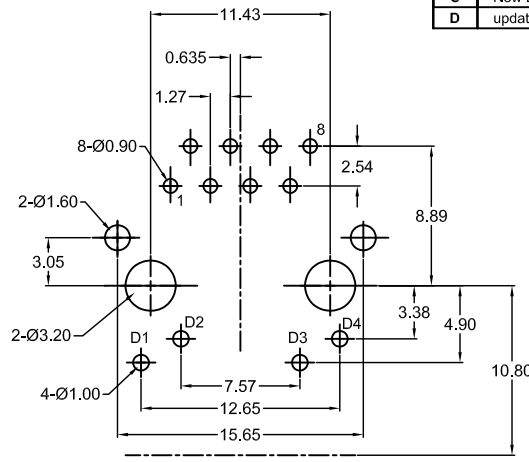
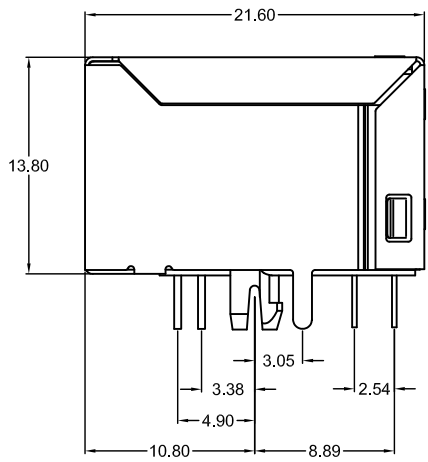
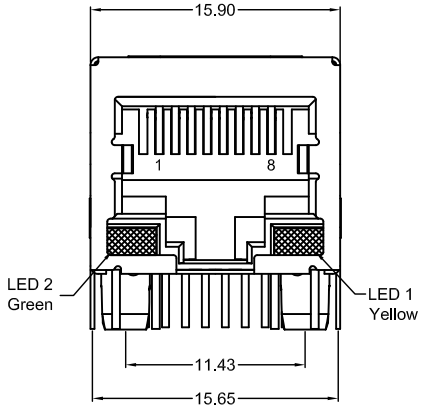


REV.	DESCRIPTION	DATE	DRAWN
A	Release	18.06.2009	Ryan
B	PN -MOLO- --> -MOLE-	01.07.2009	Hogi
C	New DWG. No.	01.02.2012	Ronny
D	update; add LED polarity	13.02.2015	Ronny

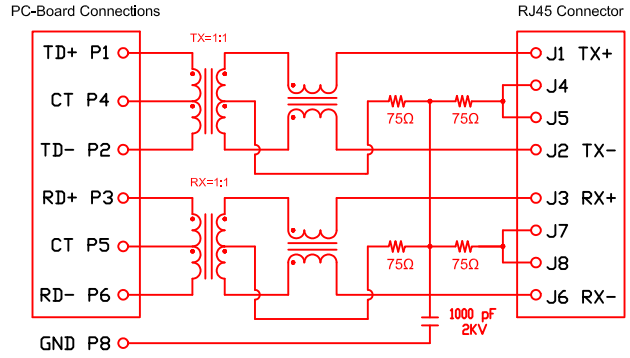


Recommended PCB Hole Layout  
Top View  
(PCB TOLERANCE ±0.05)



- ELECTRICAL CHARACTERISTICS**  
Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V);  
Pins: (P1-P2);(J1-J2)=1:1±3%  
Pins: (P3-P6);(J3-J6)=1:1±3%
  - LX: (100KHz 100mV 8mA DC Bias)  
Pins: (P1-P2);(P3-P6)=350µH min.
  - DCR:  
Pins: (J1-J2);(J3-J6)=1.2Ω max.
  - HIPOT:  
Pins: (P1,P2)to(J1,J2)=1500V AC for 60 Sec.  
Pins: (P3,P6)to(J3,J6)=1500V AC for 60 Sec.
  - INSERTION LOSS:  
-1.0dB max. at 1MHz to 100MHz
  - RETURN LOSS:  
-18dB min. at 1MHz to 30MHz (load 100Ω)  
-16dB min. at 30MHz to 60MHz (load 100Ω)  
-12dB min. at 60MHz to 80MHz (load 100Ω)
  - CROSS TALK:  
-30dB min. at 1MHz to 100MHz
  - COMMON TO COMMON MODE REJECTION:  
-30dB min. at 1MHz to 100MHz

Schematic: LE Type  
(Standard for Ethernet)



- SPECIFICATION**
- MATERIAL:  
Housing - PBT UL 94V-0 (black)  
Contact - 0.35mm PhBz; Au/Sn plated  
Shield - Brass; Ni plated
  - OPERATING LIFE: 750 Cycles min.
  - TEMPERATURE RANGE:  
Storage - -40°C to +85°C  
Operating - 0°C to 70°C
  - Cavity comply with FCC Rules and Regulations Part 68, Subpart F

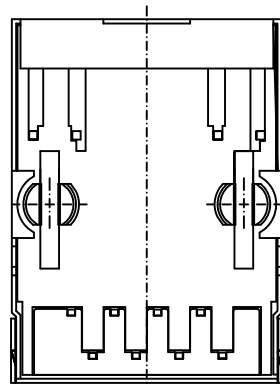
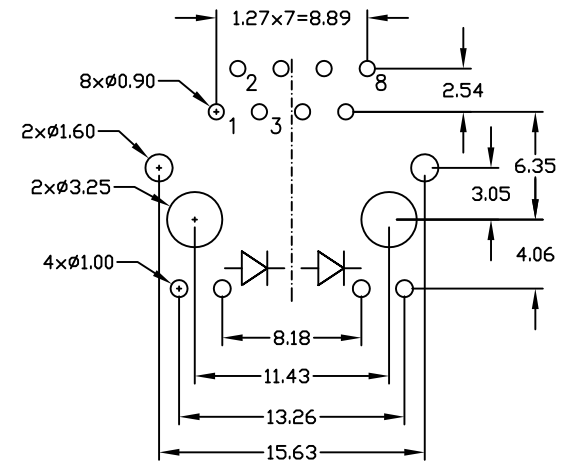
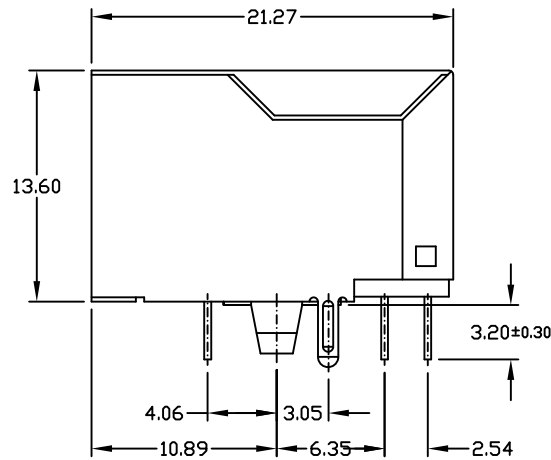
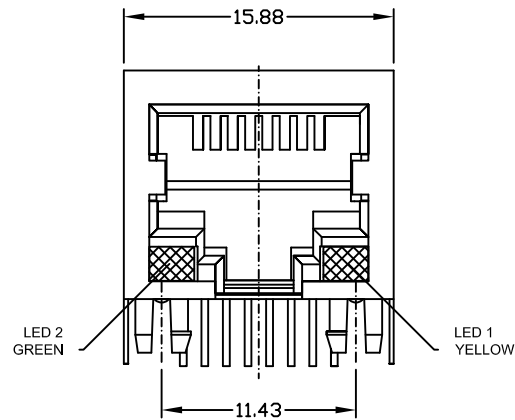
PART NUMBER	GOLD PLATING CONTACT AREA
MJS-188-MOLE-95/74CS	3µ"
MJS-188-MOLE-96/74CS	6µ"
MJS-188-MOLE-97/74CS	15µ"
MJS-188-MOLE-98/74CS	30µ"
MJS-188-MOLE-9H/74CS	50µ"



UNIT mm	GENERAL TOLERANCE	DRAWN Ryan	DATE 18.06.2009	DWG. NO. 1342505	SHEET 1/1
SCALE Free	X.° ± 3° .X° ±	CHECK Ronny	DATE 13.02.2015	Series NO. MJS-188-MOLE-9x/74CX	REV. D
	XX. ± .XX ± 0.25	APPROVE Hogi	DATE 13.02.2015		
	XXX. ± .XXX ±				

RJ 45 PCB JACK <8P8C>  
SIDE ENTRY-LONG PROFILE TYPE with LED  
FULLY SHIELDED  
"LE" Type 10/100 Base TX Filtered (Standard for Ethernet)

REV.	LOCAS.	DESCRIPTION	DATE	DRAWN
A		Release	21.10.2008	RH
B		LED Nbr. & PN /71CS => /74CS	01.07.2009	Ronny
C		New DWG. No.	01.02.2012	Ronny



### SPECIFICATIONS

Current rating: 1.5A  
 Insulation resistance: 500MΩ min./500V DC  
 Dielectric withstanding: 1000V rms. 60Hz/Minute  
 Contact resistance: 40mΩ max./20mV DC  
 Operating temperature: -40°C ~ +105°C  
 Insulator material: High temp. thermoplastic UL94V-0 color: Black

Contact material: Phosphor Bronze  
 Finish: Gold plated on contact area, Tin on solder area

Shielded: Brass, Nickel plated



### ELECTRICAL

#### Transmitter filter

Type: Balance low pass 100Ω impedance  
 Insertion loss: 1~100MHz -1.15dB max.  
 Return loss: 1~30MHz -18dB min. Load 100Ω  
 30~60MHz -15dB min. Load 100Ω  
 60~80MHz -11dB min. Load 100Ω

#### Receiver filter

Type: Balance low pass 100Ω impedance  
 Insertion loss: 1~100MHz -1.0dB max.  
 Return loss: 1~30MHz -20dB min. Load 100Ω  
 30~60MHz -14dB min. Load 100Ω  
 60~80MHz -12dB min. Load 100Ω

#### Common mode Rejection

@ 1~100MHz -25dB min.

#### Cross Talk

@ 1~100MHz -28dB min.

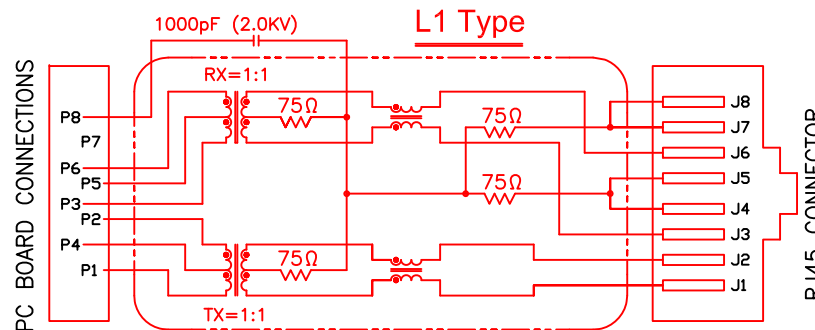
#### Inductance

@ 100KHz, 0.1V, 8mA DC BIAS  
 Input (1-3), Input (4-6): 350μH min.

#### Hi-Pot TEST

Input (1-3) to Output (1-2): 1500V AC, 60sec.  
 Input (4-6) to Output (3-6): 1500V AC, 60sec.

PART NUMBER	GOLD PLATING CONTACT AREA
MJS-188-M1L1-96/74CS	6μ"
MJS-188-M1L1-97/74CS	15μ"
MJS-188-M1L1-98/74CS	30μ"
MJS-188-M1L1-9H/74CS	50μ"

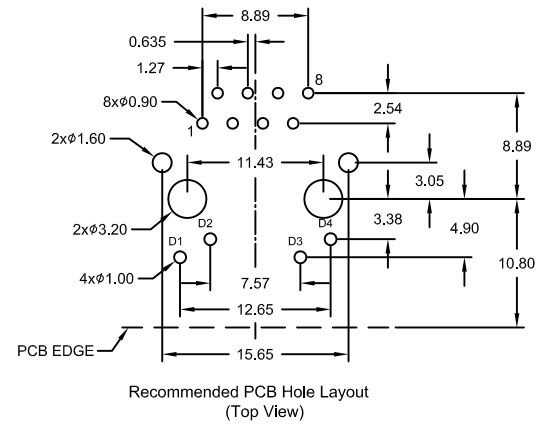
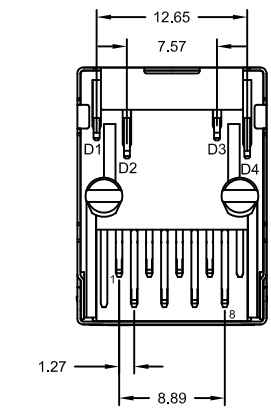
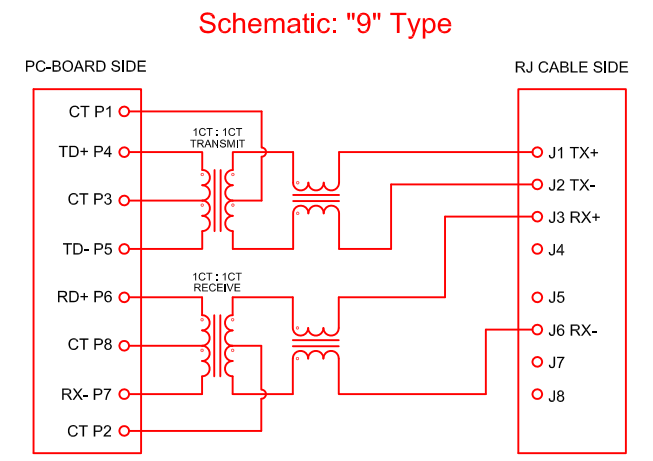
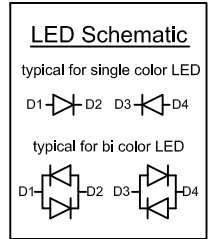
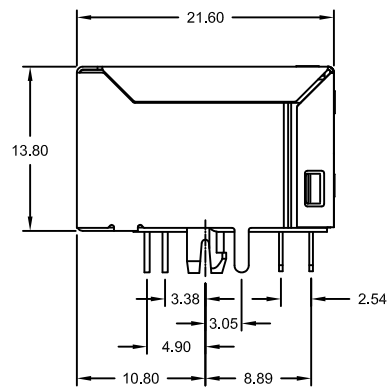
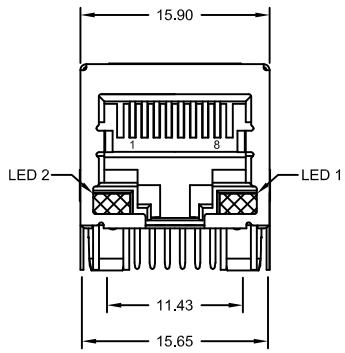


UNIT	GENERAL TOLERANCE		DRAWN	DATE	DWG. NO.	SHEET 1/1
mm	X.° ±	X. ± 0.50	RONNY	21.10.2008	1342509	REV. C
Free	.X° ±	.X ± 0.38	HOGI	01.02.2012	SERIES NO.	
	.XX° ±	.XX ± 0.25	HOGI	01.02.2012	MJS-188-X1Lx-xx/7xCX	
	ANG ± 3°	.XXX ± 0.10				

**RJ45 PCB JACK <8P8C>**  
**SIDE ENTRY-LONG PROFILE TYPE**  
**FULLY SHIELDED with lower LED**  
**L1 Type 10/100 Base TX Filtered**



REV.	DESCRIPTION	DATE	DRAWN
A	NEW	04.07.2013	Ryan



**ELECTRICAL CHARACTERISTICS**

- Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V):  
 Pins: (P4-P5):(J1-J2)=1:1±3%  
 Pins: (P6-P7):(J3-J6)=1:1±3%
  - LX: (100KHz 100mV 8mA DC Bias)  
 Pins: (P4-P5),(P6-P7)=350µH min.
  - DCR:  
 Pins: (J1-J2),(J3-J6)=1.2Ω max.
  - HIPOT:  
 Pins: (P4,P5)to(J1,J2)=1500V AC for 60 Sec.  
 or 2250V DC 60 Sec.  
 Pins: (P6,P7)to(J3,J6)=1500V AC for 60 Sec.  
 or 2250V DC 60 Sec.
  - INSERTION LOSS:  
 -1.0dB max. at 1MHz to 100MHz
  - RETURN LOSS:  
 -18dB min. at 1MHz to 30MHz, load 100Ω  
 -16dB min. at 30MHz to 60MHz, load 100Ω  
 -12dB min. at 60MHz to 80MHz, load 100Ω
  - CROSS TALK:  
 -30dB min. at 1MHz to 100MHz
  - COMMON TO COMMON MODE REJECTION:  
 -30dB min. at 1MHz to 100MHz

**SPECIFICATION**

**MATERIALS**

Insulator: PBT UL 94V-0  
 Contact: Phosphor Bronze t=0.35mm  
 plated with Gold, and Tin in solder area  
 Shield: Brass, Nickel plated  
 Operating Temperature: 0°C to ~ +70°C

Replace "x" with LED Color Options

PART NUMBER	GOLD PLATING CONTACT AREA
MJS-188-K0L9-95/7xCS	3µ"
MJS-188-K0L9-96/7xCS	6µ"
MJS-188-K0L9-97/7xCS	15µ"
MJS-188-K0L9-98/7xCS	30µ"
MJS-188-K0L9-9H/7xCS	50µ"

	LED Color Options	
	LED 2	LED 1
1	YELLOW	GREEN
2	NO LED	GREEN
3	GREEN	NO LED
4	GREEN	YELLOW
5	GREEN	GREEN
6	YELLOW	YELLOW
7	ORANGE/GREEN	ORANGE/GREEN
8	YELLOW/GREEN	YELLOW/GREEN
9	RED	NO LED
A	GREEN/YELLOW	GREEN/YELLOW
B	RED/GREEN	RED/GREEN
C	RED/GREEN	GREEN/YELLOW
D	GREEN	GREEN/YELLOW
E	YELLOW	GREEN/YELLOW



UNIT	SCALE	GENERAL TOLERANCE	DRAWN	DATE	DWG. NO.	SHEET 1/1
mm	Free	X.° ± X. ±	Ryan	04.07.2013	1342526	REV. A
		.X° ± .XX ± 0.25	Andres	04.07.2013	SERIES NO.	
		.XX° ± .XXX ± 0.15	Hogi	04.07.2013	MJS-188-K0L9-9x/7xCS	
		.XXX° ± .XXX ± 0.075				

**RJ45 PCB JACK <8P/8C> Tab down**  
 side entry, long profile Type with LED  
 fully shielded  
**"9" Type** 10/100 Mbps, 4 core TX Filtered